



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the Application of:

**Diakoumis P. Gerakoulis**

Serial No.: 09/770,858

Filed: January 26, 2001

For:

CDMA TO PACKET-SWITCHING INTERFACE FOR CODE DIVISION SWITCHING IN A TERRESTRIAL WIRELESS SYSTEM

Atty. Docket No.: 03493.00156

(IDS 113351A)

Group Art Unit: TBA

Examiner: TBA

RECEIVED  
JUN 25 2001  
Technology Center 2600

**REQUEST FOR APPROVAL OF DRAWING CHANGES**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

The Examiner's approval is respectfully requested for the proposed changes to the drawings shown in red in the accompanying copy. Specifically, the proposed changes are as follows:

FIGS. 2-3b, 5c, 7b, 7f and 8c, change “\*” to --ω--.

FIGS. 3a-5a, change the word “acknowledgement” to acknowledgment.

FIG. 5a, (text box 2, line 1) add -- - -- between the words time and out.

FIG. 5a, (text box 2, line 3) delete , after the word acknowledgment.

FIG. 5a, (text box 2, line 6) add -- - -- between the words time and out and add --, -- after the word out.

FIG. 5a, (text box 3, line 5) add -- - -- re and use .

FIG. 5a, (text box 1) add -- 505 -- to the left, outside of text box.

FIG. 5a, (text box 2) add -- 510 -- to the left, outside of text box.

FIG. 5a, (text box 3) add -- 515 -- to the left, outside of text box.

FIG. 5c, (text box 2 line 2) add -- a space-- between the words microport and spreads.

FIG. 5c, (text box 2 line 4) add -- s -- at the end of the word transmit.

FIG. 5c, (text box 3, line 1) add -- - -- between the words time and out.

FIG. 5c, (text box 3, line 2) change the word "Received" to received.

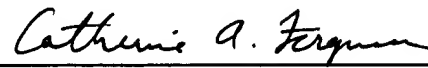
FIG. 8b, change "W" to  $\omega$ .

Respectfully submitted,

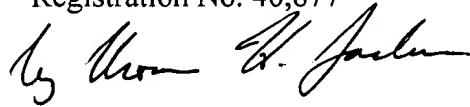
Dated: June 22, 2001

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29,808

THJ/CAF/dst

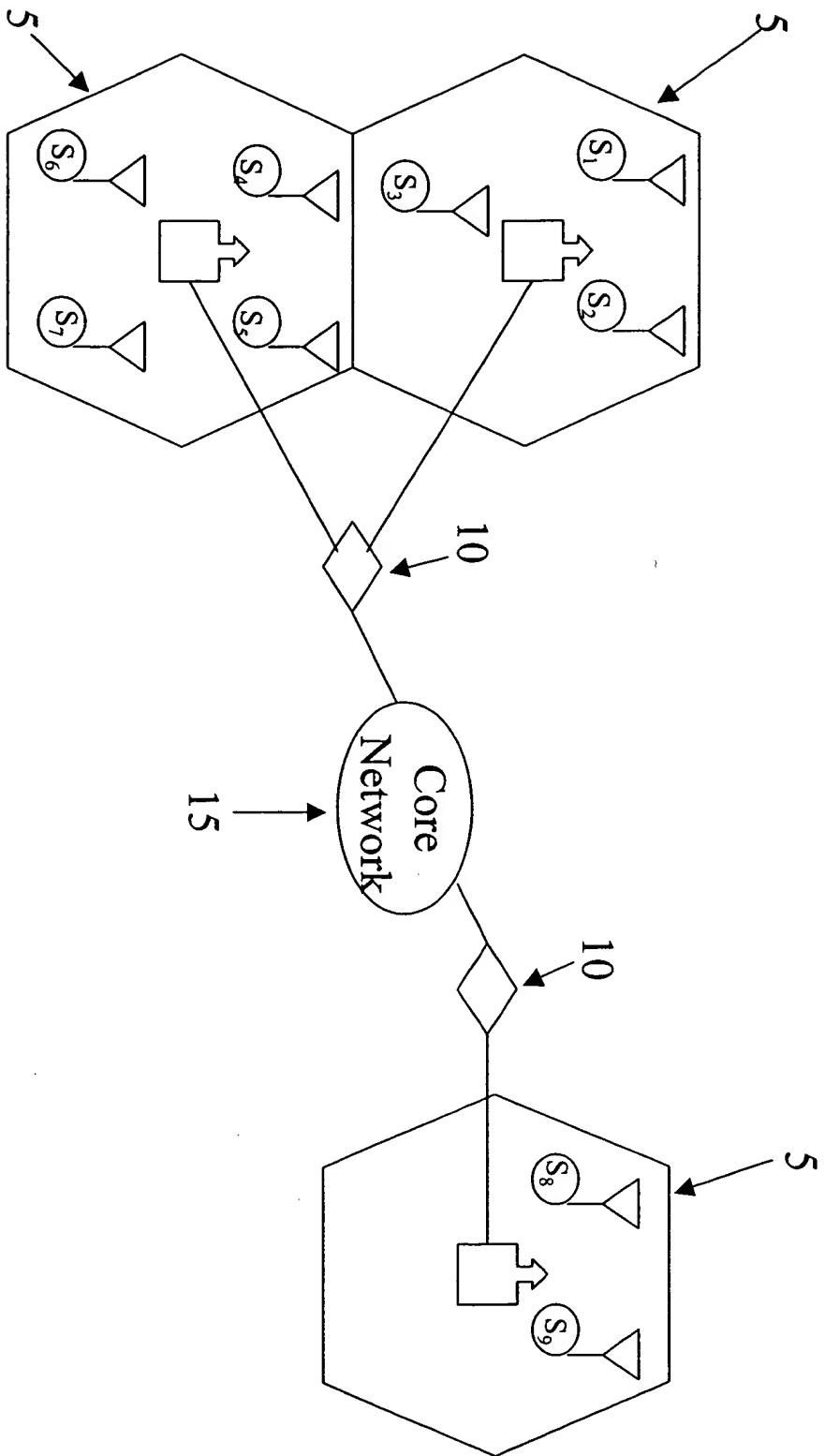


Fig. 1

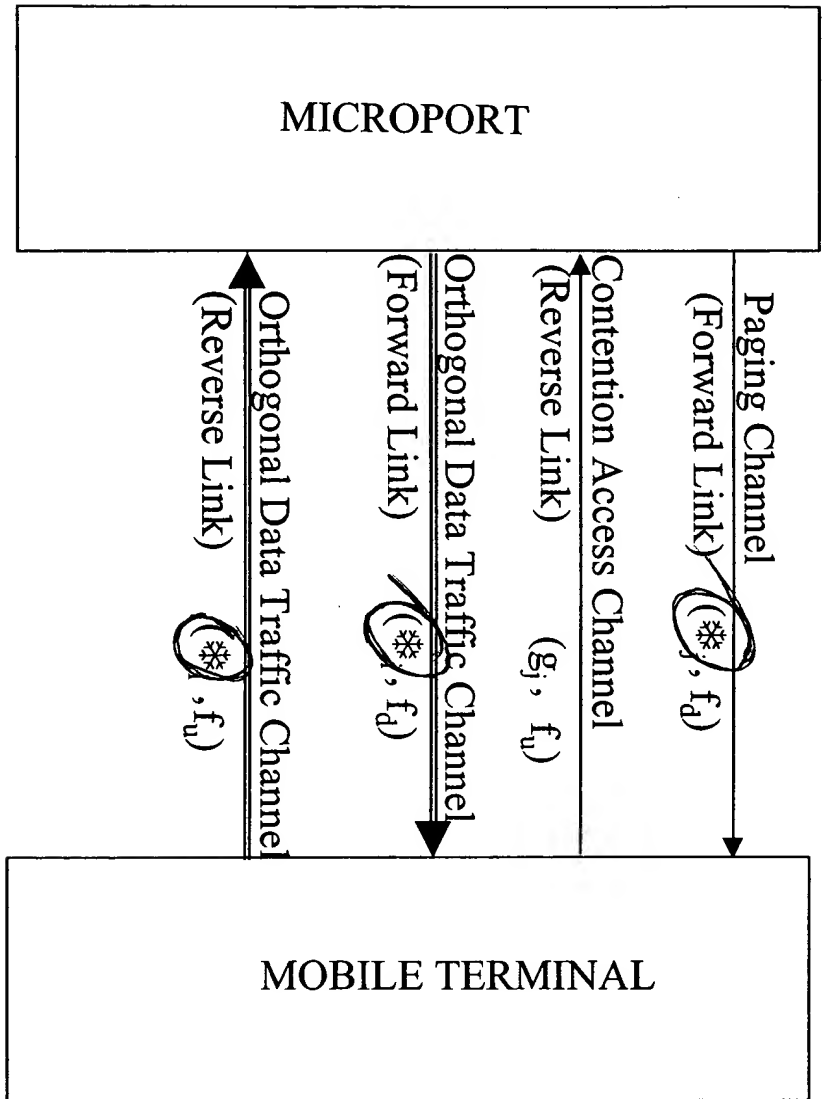


Fig. 2

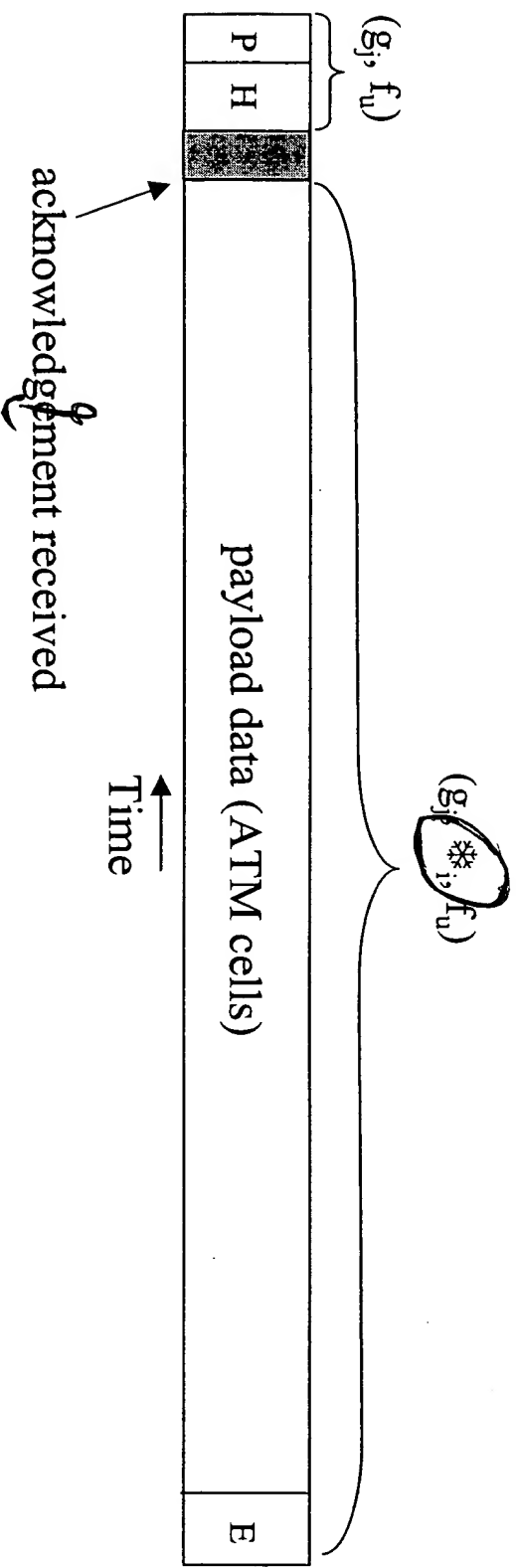


Fig. 3a

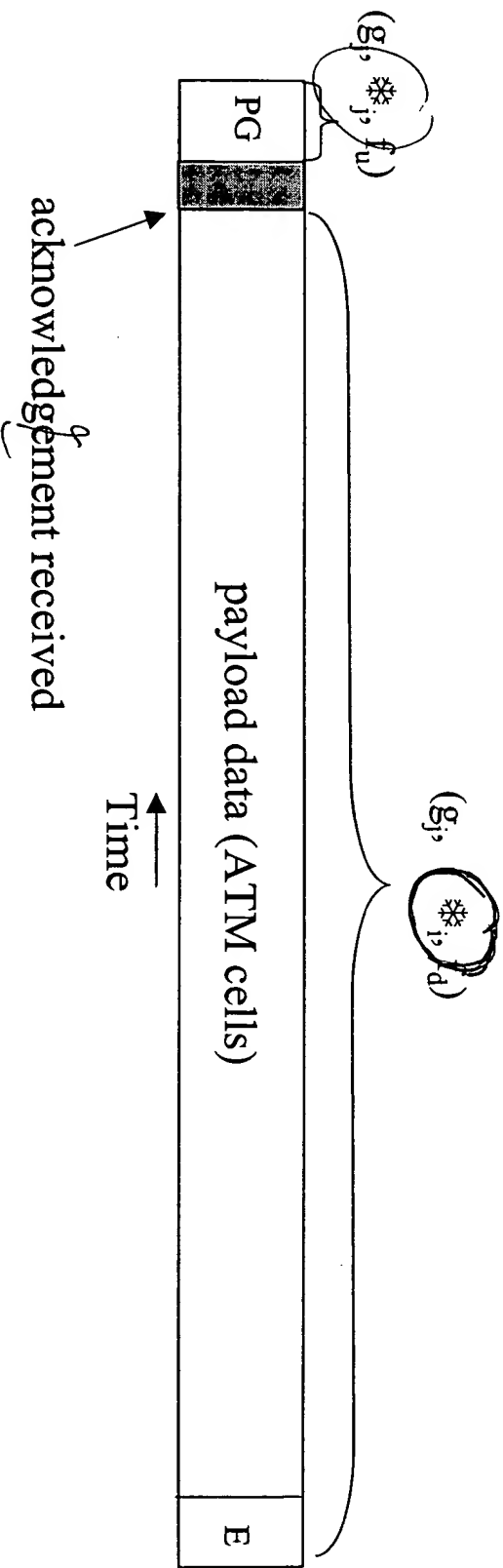


Fig. 3b

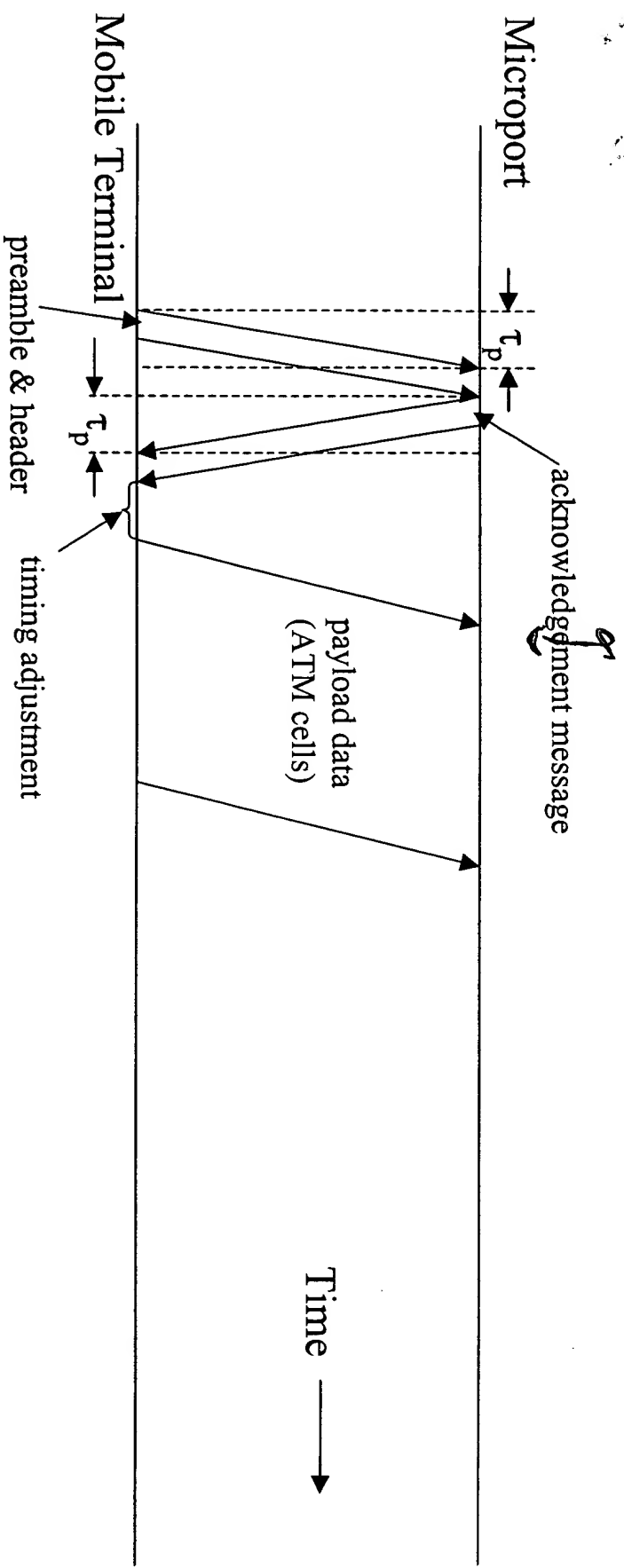


Fig. 4a

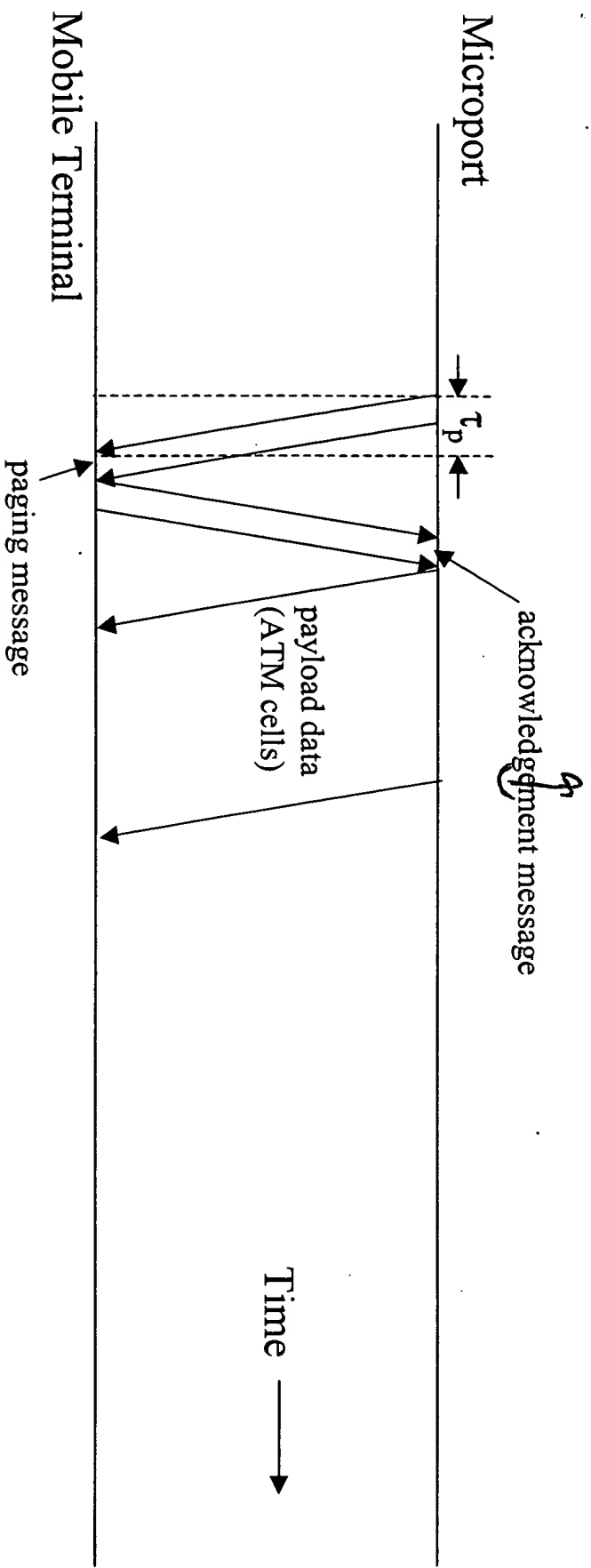


Fig. 4b



START

The mobile subscriber terminal transmits a preamble signal spread by a PN-code  $g_j$  (identifying the microport) and "marks" the point of the time origin. Following the preamble, a few bits of data are transmitted that identify the transmitting mobile user. This constitutes the packet header and is also spread by the PN-code  $g_j$ .

After an acknowledgement is received within time-out period, the mobile subscriber terminal spreads the information and data (i.e., ATM cell) by both the assigned orthogonal code (contained in the acknowledgement) and the PN-code. The mobile subscriber terminal also adjusts its transmission time (with respect to the marked point maintained by the microport) by the amount indicated in the acknowledgement, so that all transmissions are synchronized. If no acknowledgement is received within time-out the mobile retransmits the preamble and header.

After the end of the information and data, the mobile subscriber terminal sends an end of packet flag, which is also spread by the orthogonal and PN codes. The assigned orthogonal code is released, making that unique code available for reuse.

END

Fig. 5a

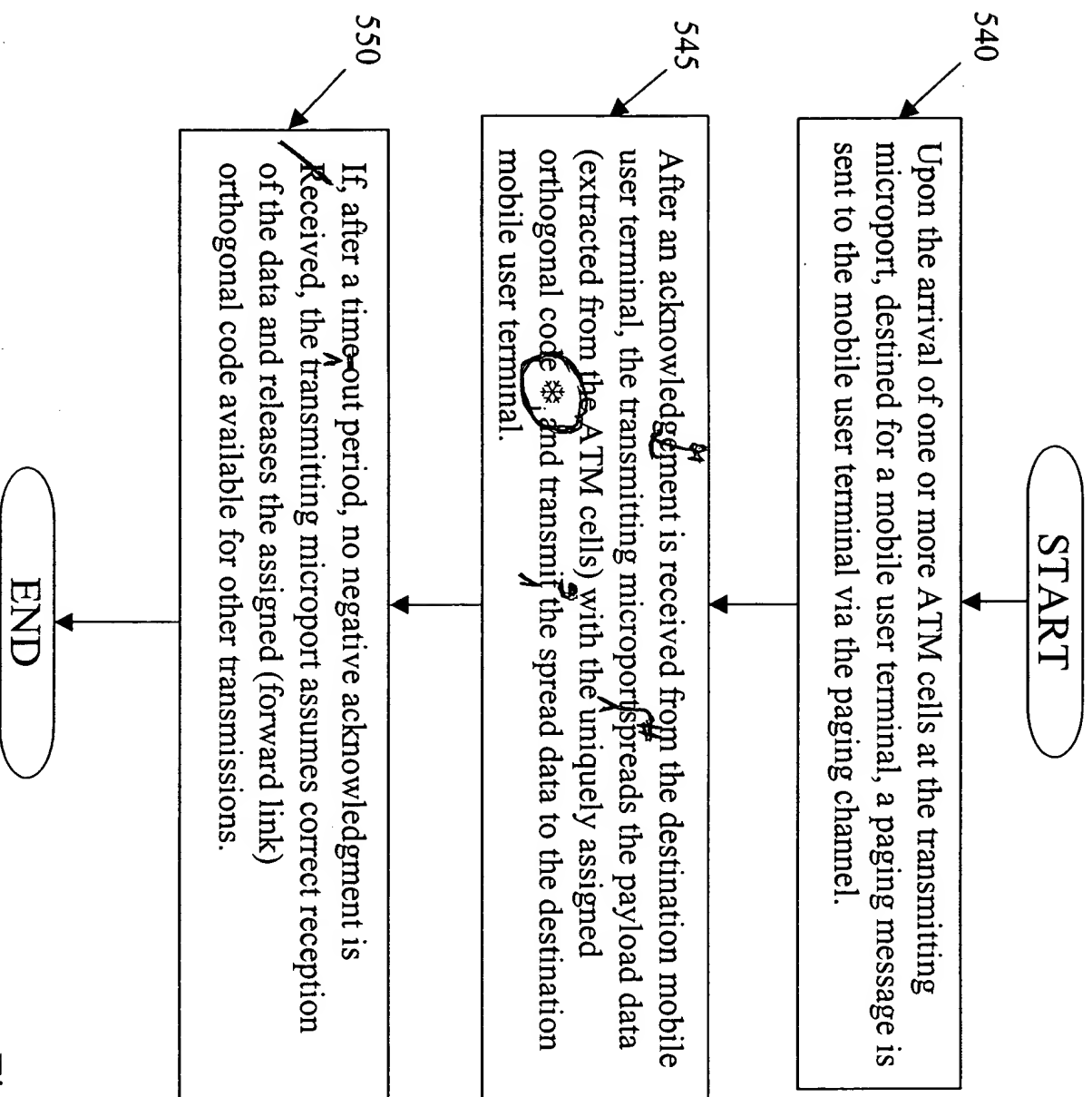


Fig. 5c

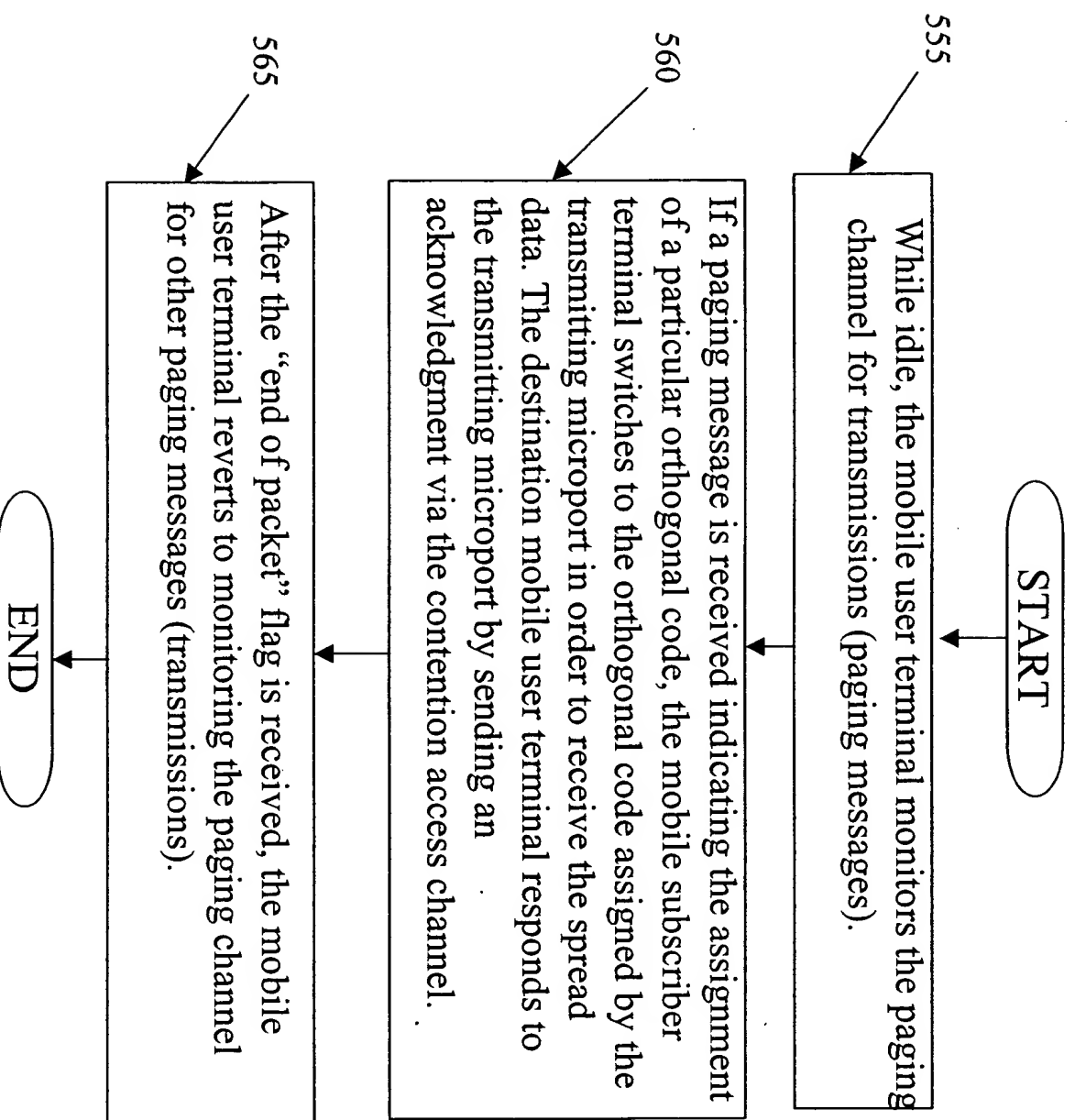


Fig.5d

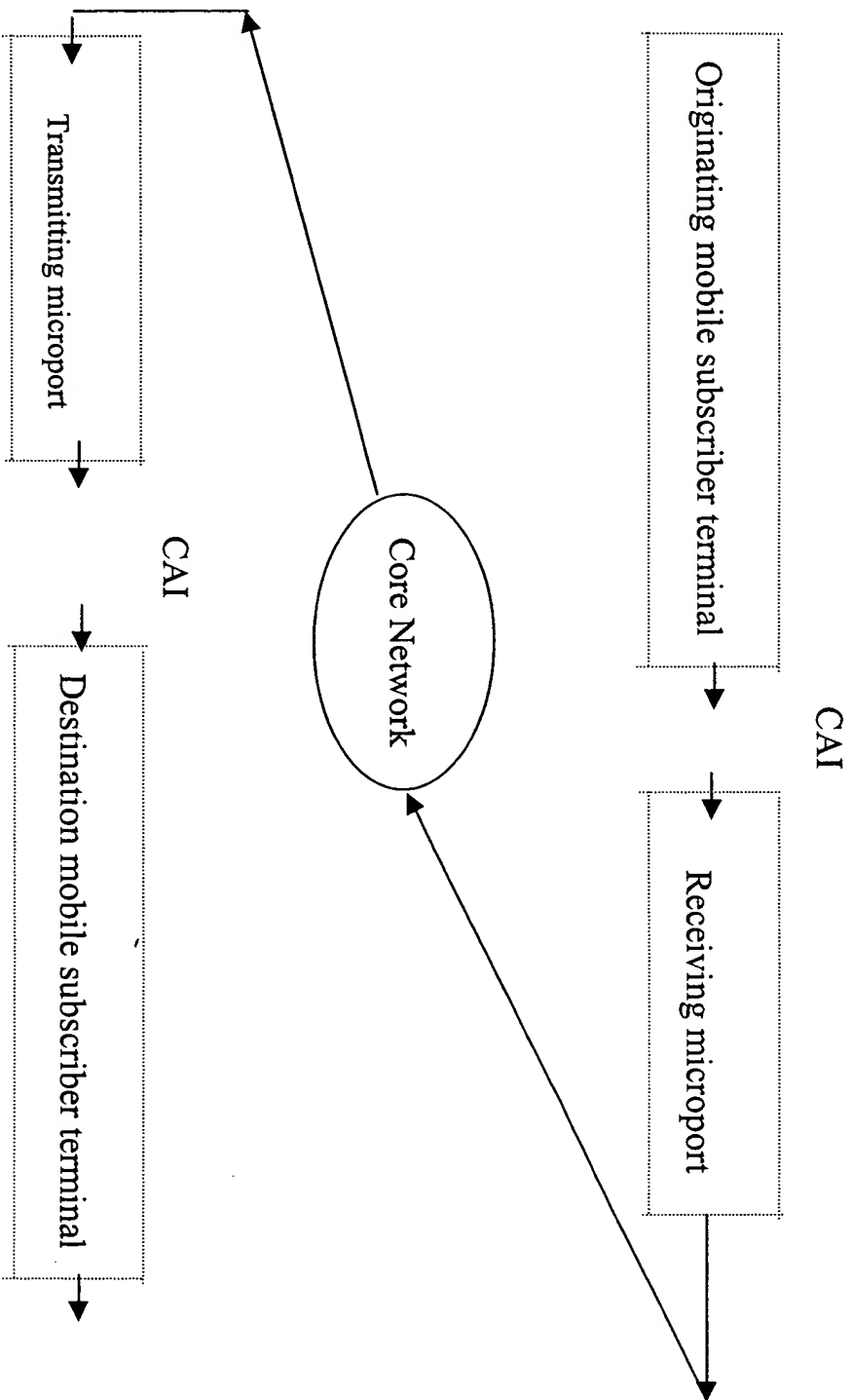


Fig. 6

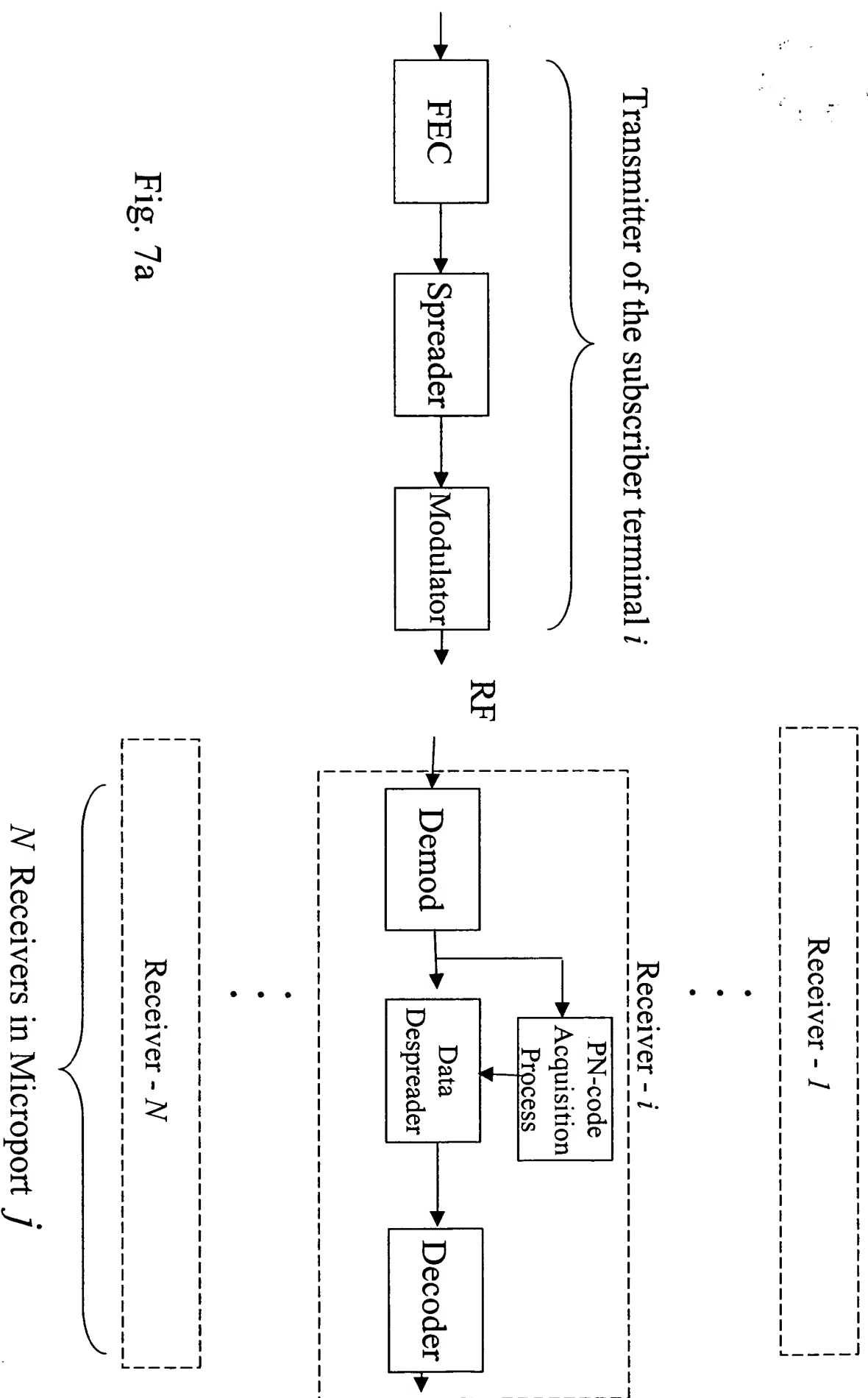


Fig. 7a

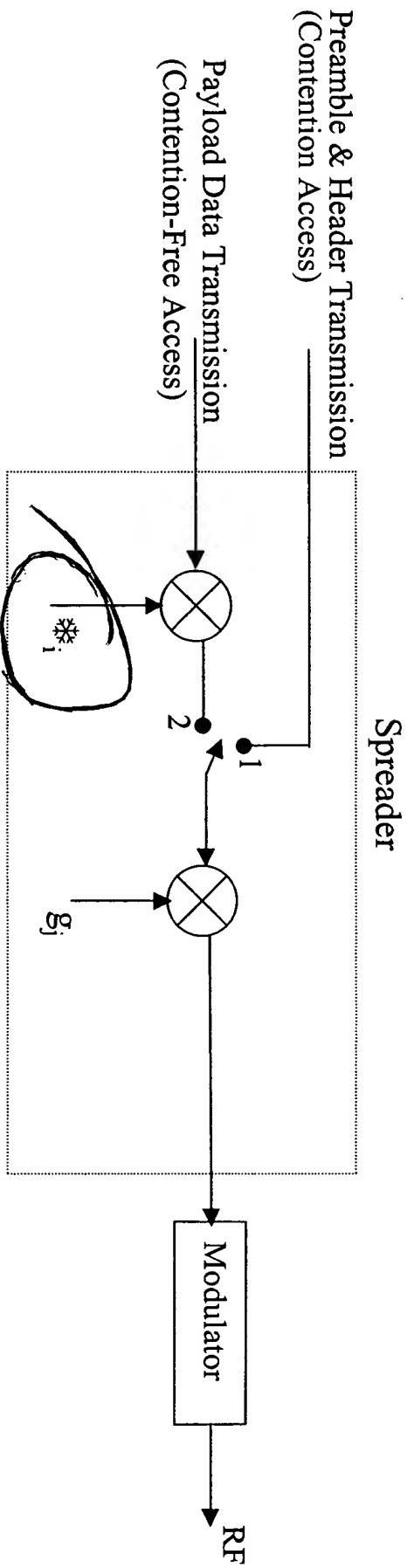


Fig. 7b

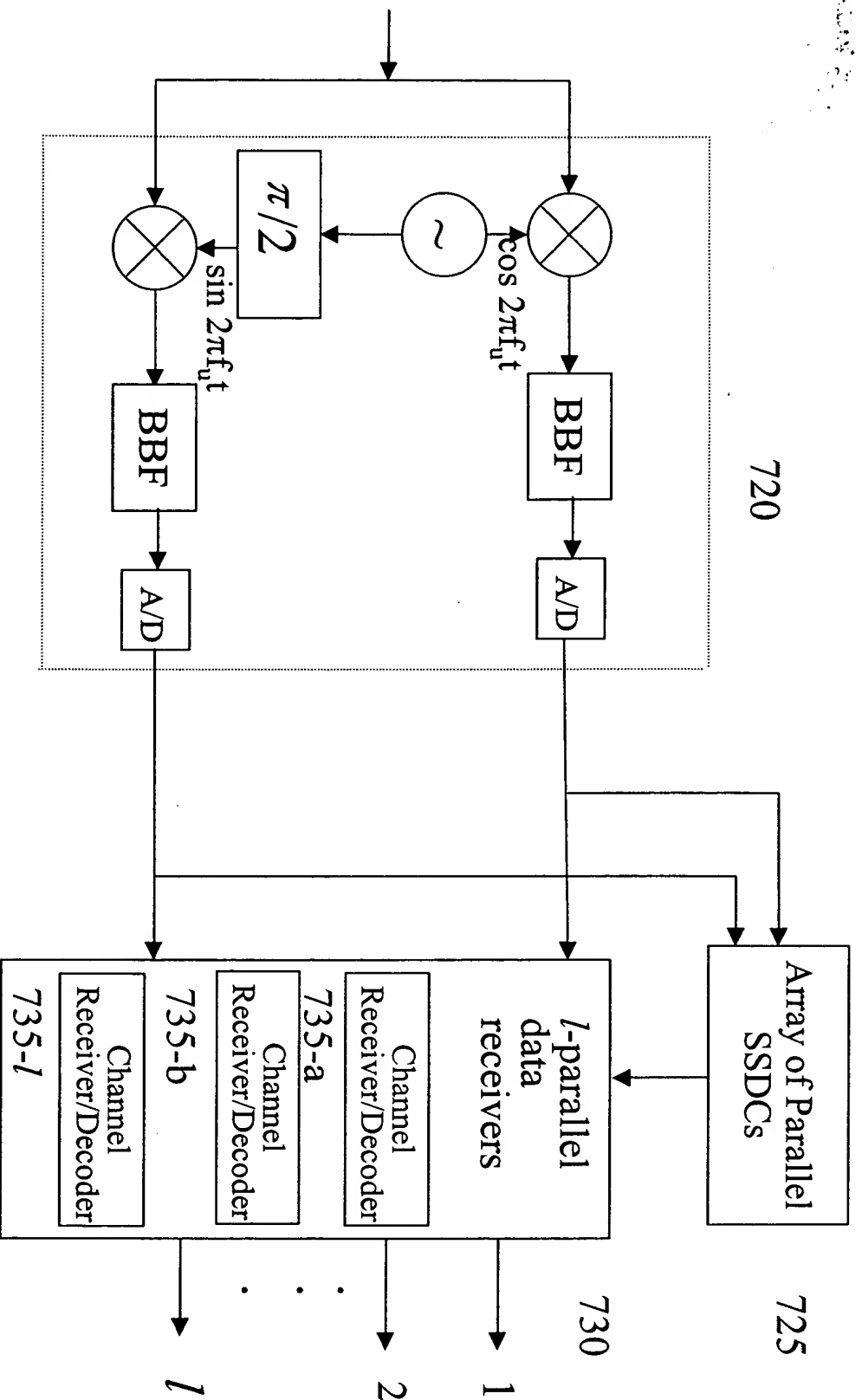


Fig. 7c

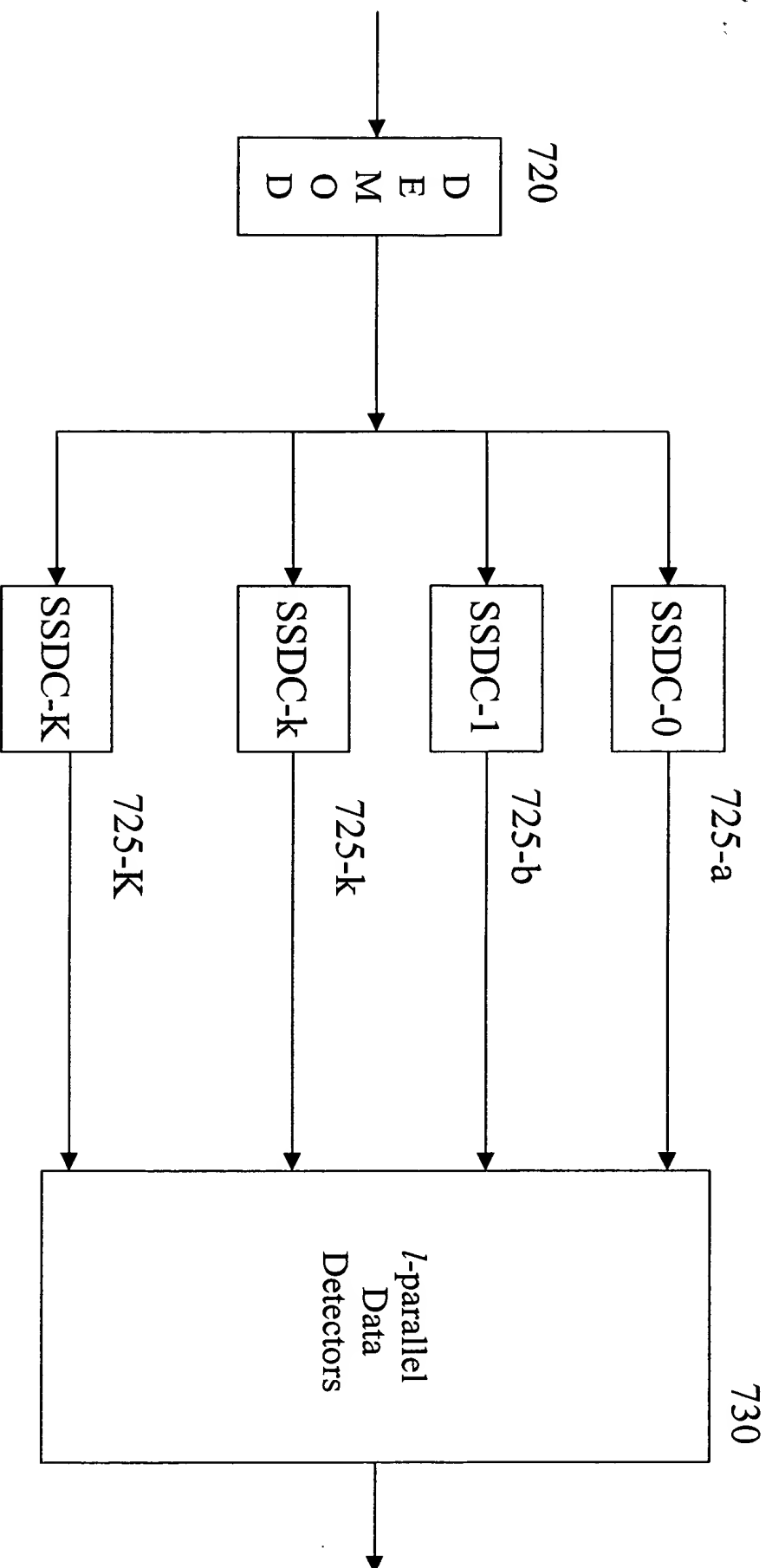


Fig. 7d



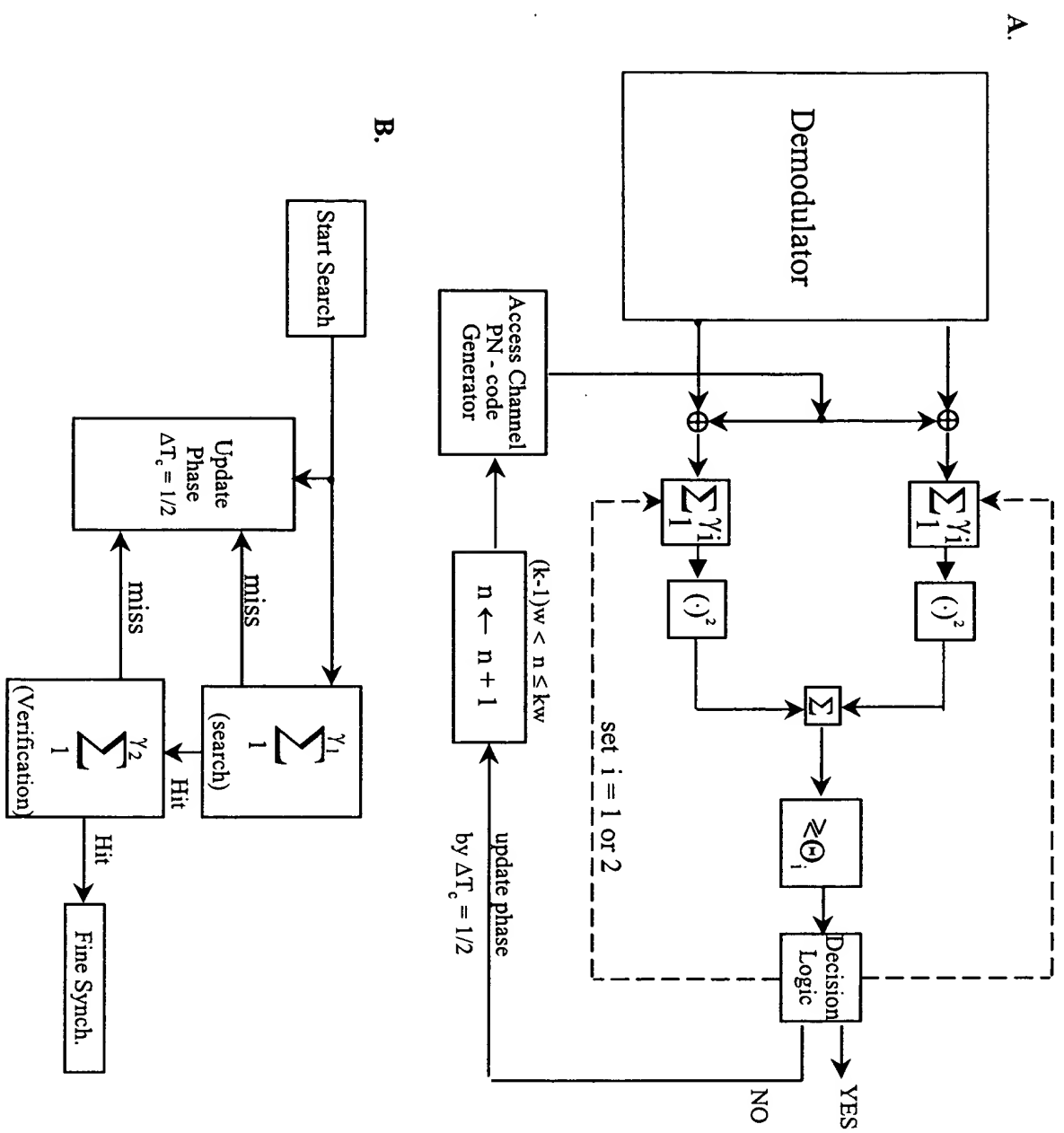


Figure 7e

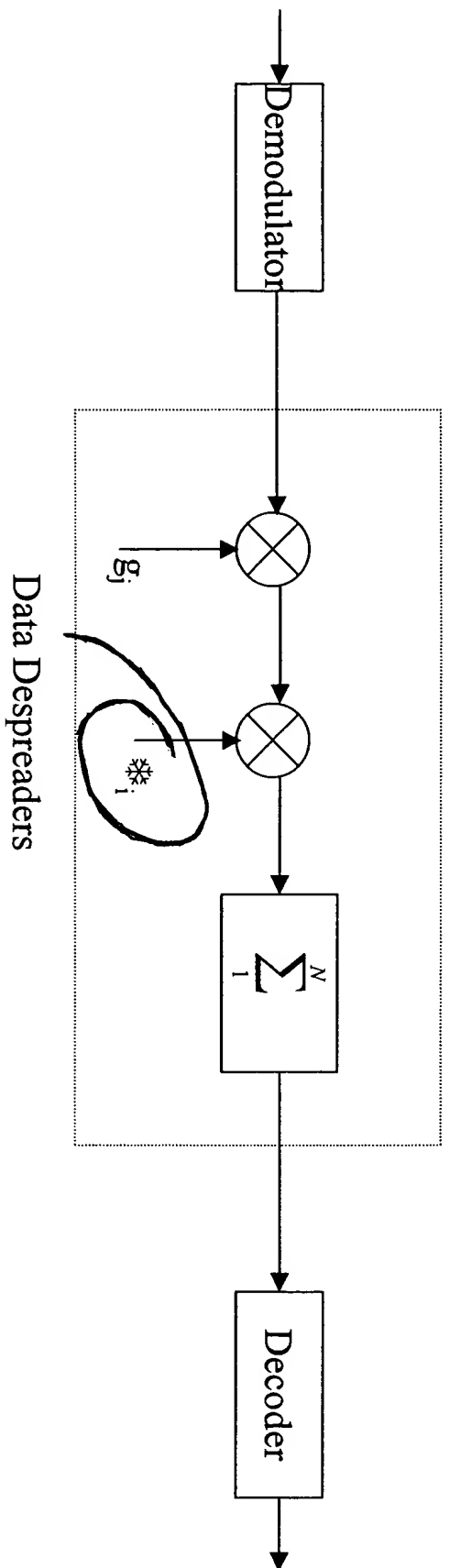


Fig. 7f

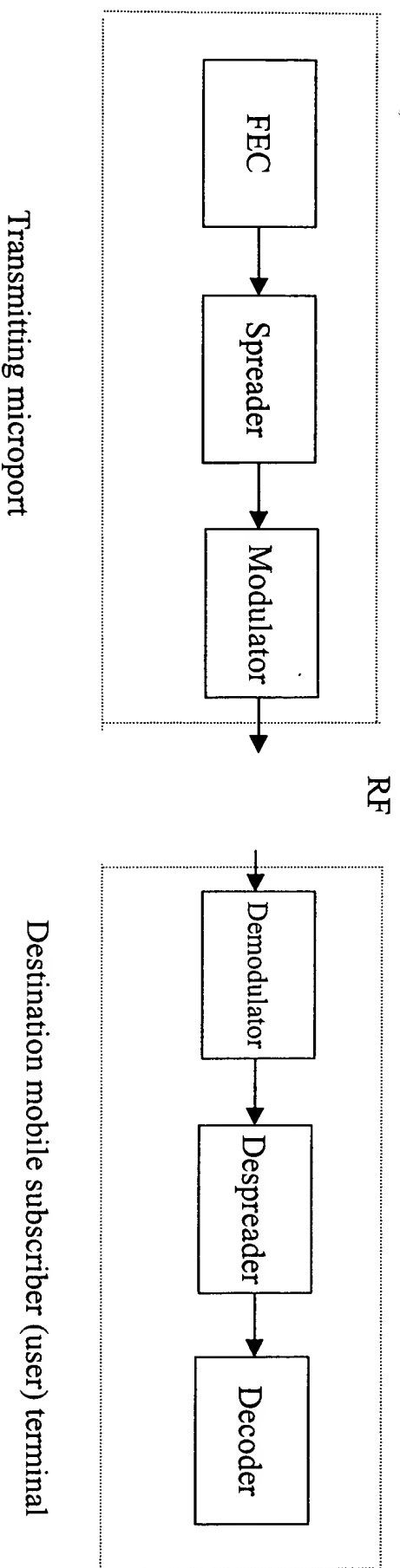


Fig. 8a

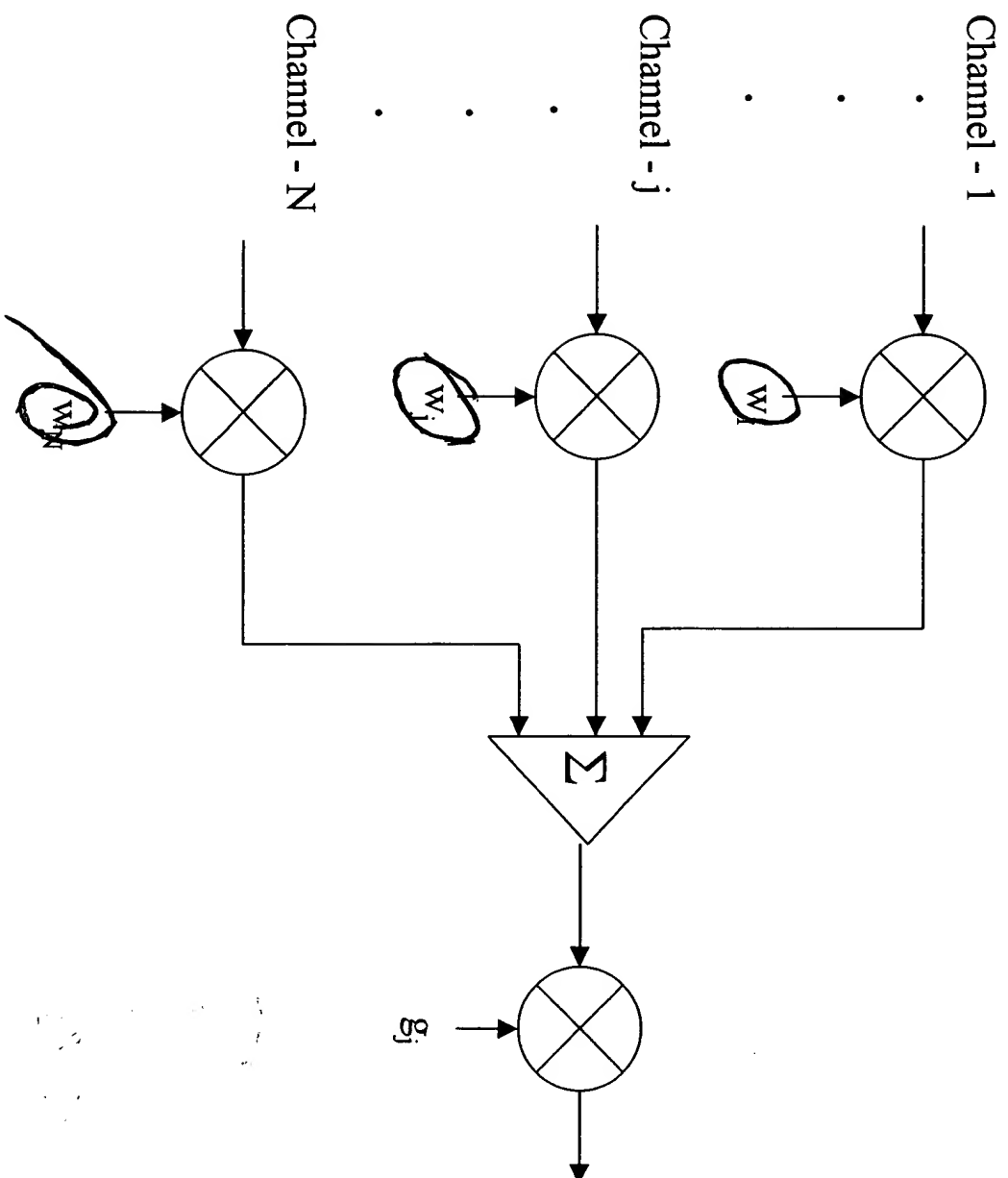


Fig. 8b

# Data Despreader

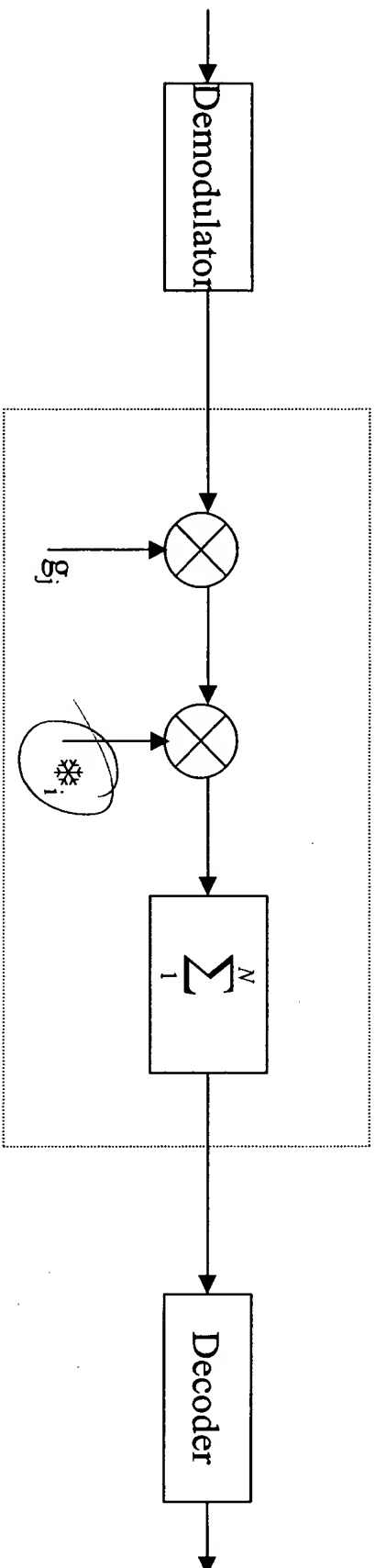


Fig. 8c